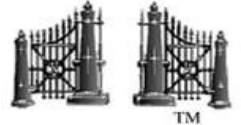




Agenda for 24 OCT 2013 Picatinny Arsenal Restoration Advisory Board

US Army Garrison



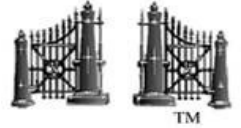
Picatinny Arsenal

- **Attendance, Introductions & Correspondence**
- **Old Business**
- **TAPP Contract Financial Report and Path Ahead**
- **Former Burning Grounds Update**
- **Mid-Valley Groundwater Update**
- **Co-Chair Election**
- **Update in a Minute**
- **Synopsis and Next Meeting**



TAPP Financial Report Update

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Picatinny Arsenal

Contract awarded September 2011 with 2 Option Years via Purchase Order;
1st option year was exercised

FY 13 Picatinny Contract Option Year 1: To SEP 13

Purchase Order Value \$23,218.50
Spent \$14,538.00

FY 13 Picatinny Contract Option Year 2: FY 14

Purchase Order Value \$24,052.80 till Sept 19, 2014
Spent \$ 0.00

This option year of the contract is the last year of the 2nd Waiver Request.

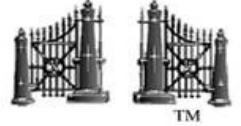
Method of selecting what TAPP reviews: Doodle polls with a minimum of two votes in favor needed for a review. Continue to send executive summaries, report or reports summaries prior to the Doodle Vote

Recent reviews: GPB/BSB Annual Report, 26 Sites Proposed Plan, 2012 Annual Monitoring Group 3 , Site 2 GW and SW Report, Site 78 Annual Report, Area B Annual report, 45 Site Feasibility Study, Area C Annual Report

Suggested upcoming reviews: MMRP RI Report, Annual Reports for Groundwater Sites, the Non-Lake FS, the Dispute Resolution Position Papers, the Lake Picatinny Sampling Results, or the Revised Lakes FS.



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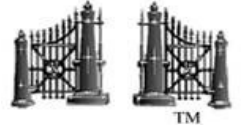
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Update-in-a-Minute Installation Restoration Program 24 October Presentation to the Picatinny Arsenal Restoration Advisory Board



Status of Installation Restoration Investigations

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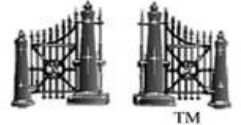
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- **Installation Restoration Program Remedial Investigations considered complete**
- **Lake Picatinny sampling as required by NJDEP and EPA completed in Sept, results in Dec**
- **Marsh Report Site Investigation Report provided to EPA and NJDEP; Additional samples taken this week per NJDEP comments**



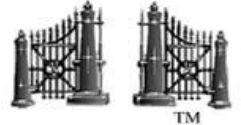
Status of IRP Feasibility Studies (FSs)

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Picatinny Arsenal

- **600 Hill Groundwater submitted May 2013, reviewed and discussed at last RAB**
- **Lakes FS: Document will need to be revised (once again) based on sampling results**
- **45 Site FS: All sites with acceptable risk; consistent with No Action by July: Only two alternatives - No Action and No Action with monitoring: NJDEP provides comments. Briefing paper by TAPP**
- **Non-Lakes Sites: With all sites with acceptable risk submitted consistent with No Action**
- **5 Site FS: Army and EPA have gone Formal**



Disputed Issue for 5 Site FS

Which soils contaminants needs to be addressed when risk is unacceptable at a site?

Army Position: Risk Driving Contaminants only get cleaned up:

"New Jersey SRS based on the ingestion-dermal health criterion are only ARARs for COCs found to be driving site risks or hazards at the site and not for non-risk or hazard drivers even if identified as Contaminants of Potential Concern (COPCs) at the initial stage of the risk assessment process. "

EPA Position: State Cleanup numbers are generally ARARs:

"..once an unacceptable risk or hazard is identified for a chemical on-site (and it therefore becomes a Chemical of Concern (COC)), the ARAR analysis triggers recognition of the entire list of the New Jersey Soil Remediation Standards (SRS) based on ingestion-dermal health criterion promulgated by New Jersey for all chemicals present on-site regardless of the CERCLA risk assessment process (i.e. regardless of whether or not they are an identified COC in the CERCLA risk assessment). "

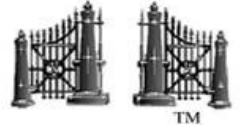
Deals with 5 locations near: Building 63, near former Building 408, near former Buildings 541 and 41

Army pulling back remediation at 3 sites "the proposed soil remediation goal (23,000 mg/kg) is higher than the soil exposure point concentration for manganese



Status of Proposed Plans

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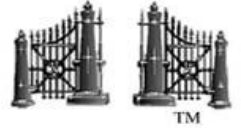
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- **600 Hill GW Proposed Plan: Will need to be separately contracted.**
- **PICA 111 NFA Proposed Plan: Submitted in June 2013, new 2014 contractor to make modifications.**
- **26 Site NFA Proposed Plan: Submitted in June 2013, comments from EPA and NJDEP in August 2013: Briefed at last RAB**



Status of Records of Decision

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Picatinny Arsenal

- **Signed RODs, Implemented:**

- Site 20/24 considered complete except LUC monitoring
- Post Farm: Action is considered complete except for monitoring
- Green Pond/ Bear Swamp Brook: Only monitoring remains
- Area D Groundwater: Permeable Reactive Barrier monitoring continues
- Site 25/26: ICs and vegetative cover considered complete
- Site 180 ROD: Complete except LTM
- Area E Groundwater: Consider complete except for the MNA monitoring
- 13 Sites Institutional ROD PICA 20: LUCs ongoing
- Site 61/104: considered complete
- Area B Groundwater: Considered *Remedy* in Place
- Site 31/101 DRMO Yard: Complete except for LUC
- Southern Boundary/Area C: LTM continues
- Group 1 GW and soils: Considered complete except monitoring
- Group 3 GW and surface water: Considered complete except monitoring
- Site 78, PICA 13 GW and SW: Considered complete except monitoring
- MidValley Groundwater: Remediation ongoing and discussed at this RAB

- **Next up**

- 26 Sites NFA Record of Decision: COL Mackay signed document in early September 2013. EPA will not sign until risk assessments are reviewed by EPA HQ as requested by the NJDEP

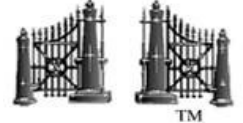
- **Signed now being implemented**

- Former Burning Grounds (PICA 02): Discussed at this RAB Explanation of Differences required by EPA for Hybrid Cover; Contractual Modification required to be in compliance with C-1 Requirements.

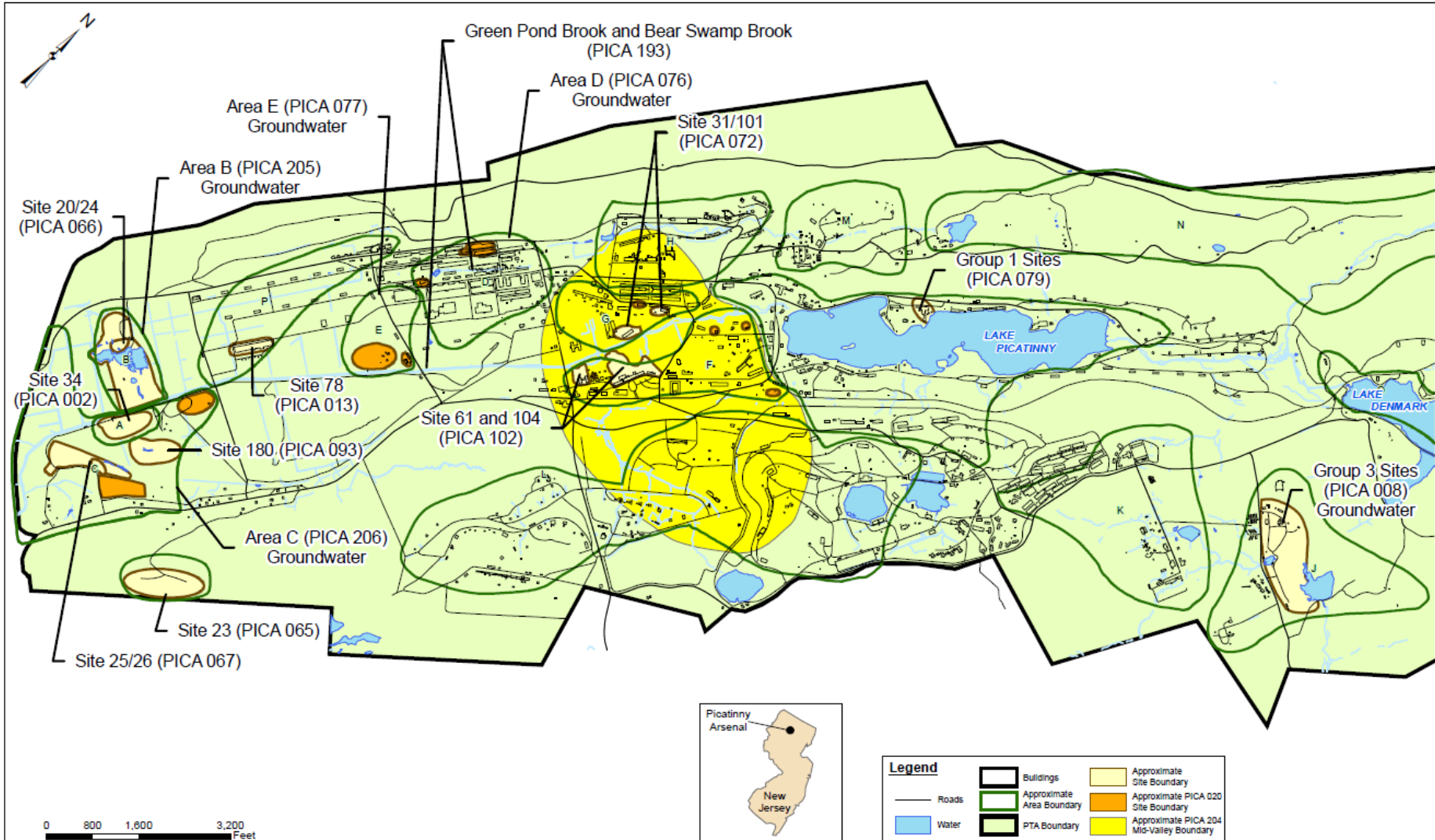


Sites with signed Records of Decision

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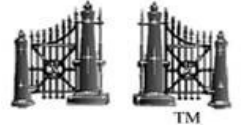
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Remedial Action Reports & Long Term Monitoring Reports

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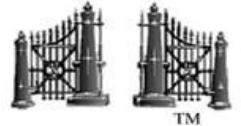
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- **MidValley Groundwater Interim Remedial Action Report**
- **Post Farm**
- **Site 180**
- **Site 25/26**
- **Area B GW**
- **Area E GW**
- **Area D GW**
- **Green Pond Brook/Bear Swamp Brook**
- **Site 104/61 Report**
- **Area C GW: NJDEP requesting offsite well, Army disagrees**
- **Group 1 GW**
- **Group 3 GW**
- **PICA 13/Site 78 GW**
- **LUC Annual Certification**



Update on the Military Munitions Response Program Remedial Investigation

US Army Garrison



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- RAB Briefed on results in June 2012 on 7 Sites and February 2013 on the investigation of the Lakes
 - RI Report to be submitted November of 2013
-
-

- Nine munitions response sites (MRS) totaling 5,801 acres
- RI Objective: Collect data to define nature and extent of munitions and explosives of concern (MEC) and munitions constituents (MC)
- Field investigations include geophysical surveys, anomaly excavations, and media sampling for MC
- Investigation results will be used to assess explosive hazards and risk to human health, safety, and the environment and evaluate MRS boundaries

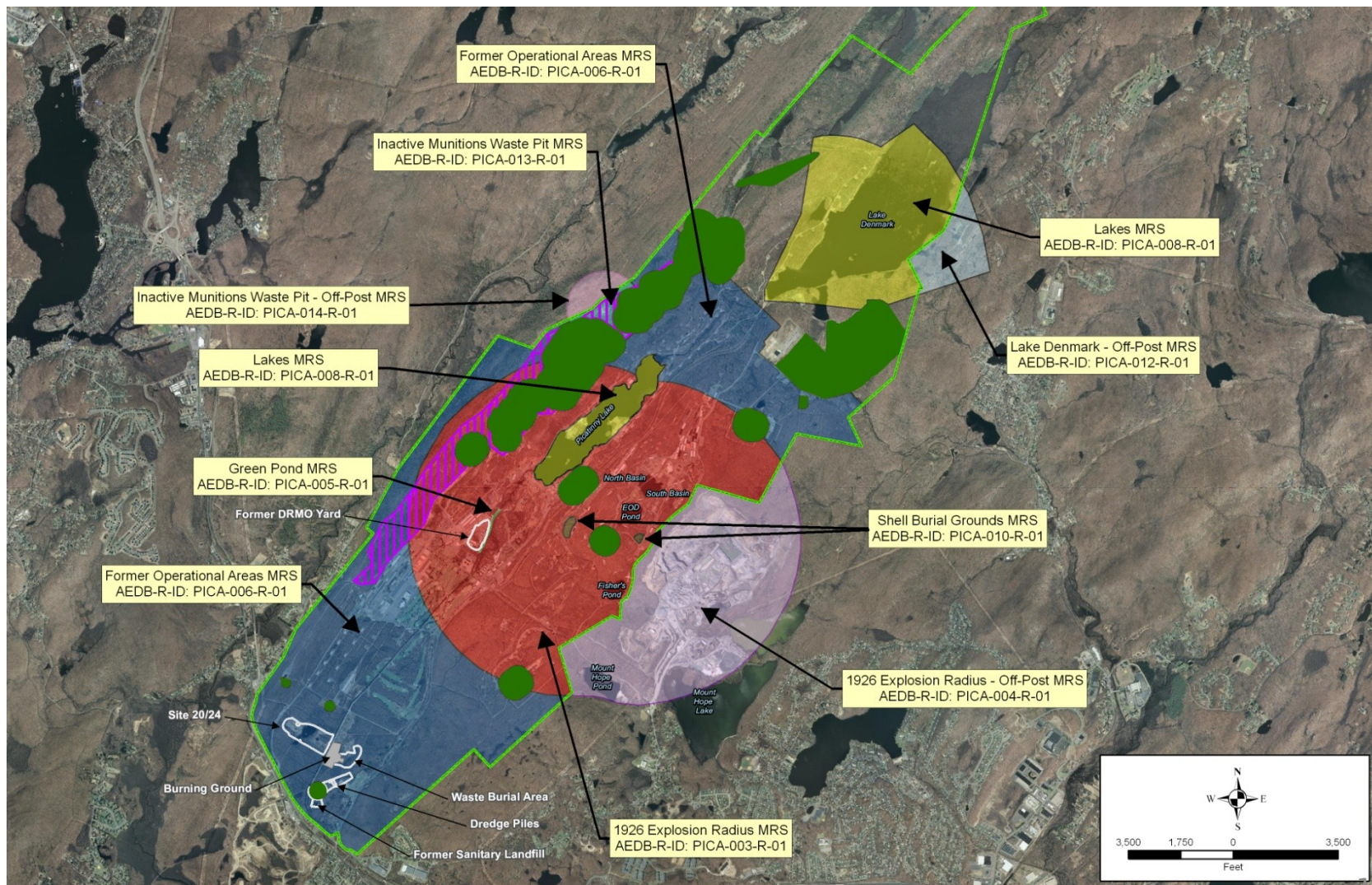


Military Munitions Response Program Remedial Investigation

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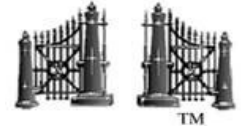
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MMRP Remedial Investigation Summary

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Munitions Response Site	Geophysical Survey Coverage						Anomalies Investigated	Quantity of MEC	Quantity of MD
	Transect Approach				Grid Approach				
	Mag & Dig (ft)	DGM (ft)	Density (ft)	ER (ft)	Mag & Dig	DGM			
1926 Explosion Radius and 1926 Explosion Radius - Off-Post	-	-	13,844	-	93 grids/ 5.33 acres	39 grids/ 2.23 acres	2,928	21	967
Shell Burial Grounds	-	15,313	-	4,660	-	-	0	0	0
Green Pond Brook	2,160	2,703	-	-	-	-	562	0	58
Former Operational Area	218,910	70,650	13,443	-	1 grid/ 0.05 acres	7 grids/ 0.4 acres	3,194	76	443
Lakes	78,837	31,439	-	-	-	2 grids/ 0.82 acres	268	2	44
Inactive Munitions Waste Pit	830	6,163	3,020	-	1 grid/ 0.05 acres	-	14	0	1
Inactive Munitions Waste Pit - Off-Post	6,780	-	-	-	-	-	6	0	4
Lake Denmark - Off-Post	-	-	30,817	-	-	-	0	0	0
Project Total	307,517 ft or 58 miles	126,268 ft or 24 miles	61,124 ft or 11 miles	4,660 ft or 0.9 miles	95 grids/ 5.43 acres	48 grids/ 3.45 acres	6,972	99	1,517
ER	electrical resistivity								
ft	feet								
MD	munitions debris								
MEC	munitions and explosives of concern								



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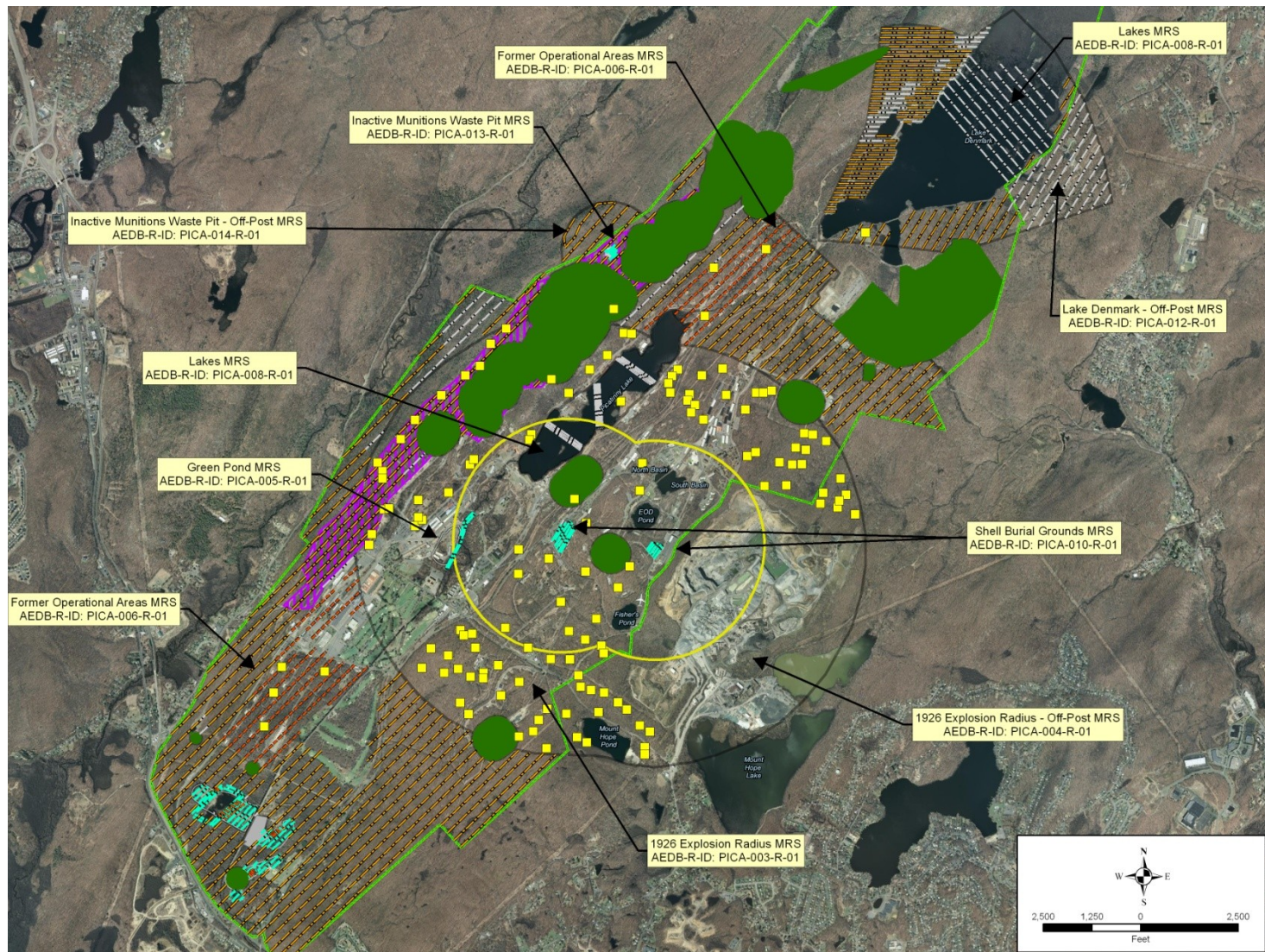
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What was briefed in last June



Legend

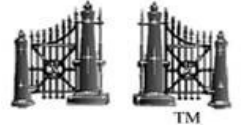
- Installation Boundary
- Operational Range Areas
- Military Response Sites
- Code 300 Area
- 0.5 Mile Radius
- Ineligible Area - Burning Ground
- MRS Sub-Sites
- Grids Investigated
- Planned Investigation Transects
- Transects Investigated
- EM 31 Transect Complete
- EM 61 Transect Complete





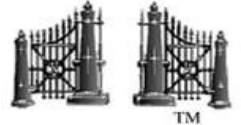
Update on the RI of Lake Denmark- off Post MRS

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- **Needed DoJ to get permission from the Courts to do intrusive work instead RoE;**
- **Non-Intrusive Technical Memorandum approved Army, EPA & NJDEP;**
 - **Added approved process to Work Plan Addendum**
 - **Information from other activities included in Work Plan**
 - **Transects spaced 100 feet**
- **If Data Quality Objectives cannot be met, a Data Gap FS will be developed with another contract**
- **30,817 feet of visual surveys completed and no MEC (UXO found)**



- **2013 Installation Action Plan: On Picatinny Environmental Web page**
 - **MMRP Sites' Cost-to-Complete does not include costs past ROD if FS is not available**
 - **IRP sites reflect that No-Action is expected for over 100 sites with acceptable risk**
- **Defense State Memorandum of Agreement/Cooperative Agreement DSMOA Draft two year WP to be submitted to NJDEP through DoD's web portal**
 - **This is how New Jersey is paid to review and provide oversight consistent with CERLCA.**
- **FY 14 Contract Plan will include a major Performance-Based Contracting effort**
 - **FSs- Remedy-in-place for MMRP & Former Skeet Range, Remedy-in-Place 600 Hill GW and Lakes to be contracted out till Remedy in Place**
 - **Replacement of current PBC contract with LTM requirements**



Have a Happy Halloween



Map showing agreements of approved Supplemental Workplan

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